

## Features

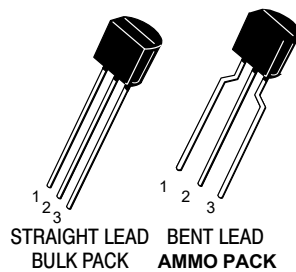
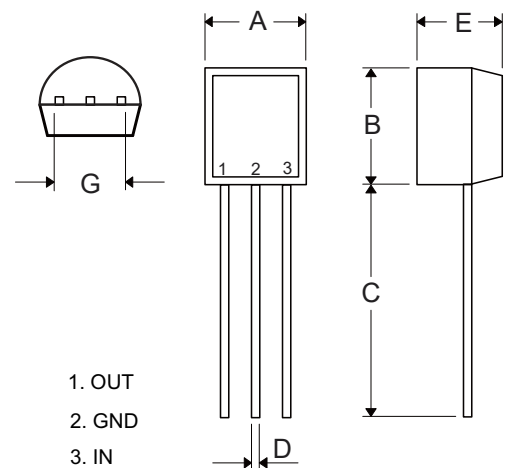
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	30	V
Operating Junction Temperature Range	$T_{opr}$	-30~75	°C
Storage Temperature Range	$T_{STG}$	-40~125	°C

# Three-Terminal Low Negative Voltage Regulators

## TO-92



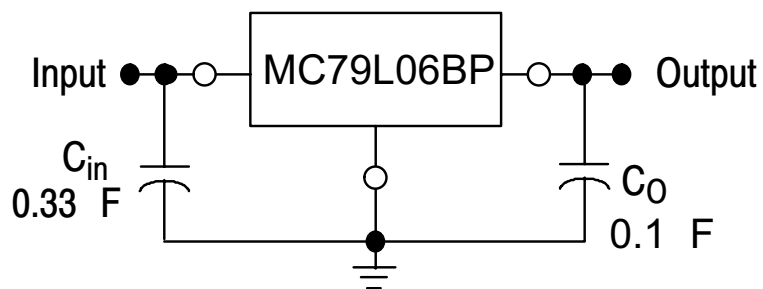
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.169	0.185	4.30	4.70	
C	0.500	-----	12.70	-----	
D	0.015	0.022	0.38	0.55	
E	0.130	0.146	3.30	3.70	
G	0.095	0.105	2.42	2.67	Straight Lead
	0.173	0.220	4.40	5.60	Bent

**Electrical Characteristics**

( $V_i=12V$ ,  $I_o=40mA$ ,  $0^\circ C < T_j < 125^\circ C$ ,  $C_i=0.33\mu F$ ,  $C_o=0.1\mu F$ , Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	$V_o$	$V_i=12V$ , $I_o=40mA$	5.76	6.0	6.24	V
Load Regulation	$V_o-I_o$	$I_o=1mA-100mA$ , $V_i=12V$	-	7.0	60	mV
Line Regulation	$V_o-V_i$	$8.5V \leq V_i \leq 20V$ , $I_o=40mA$	-	15	150	mV
Quiescent Current	$I_q$	$V_i=12V$ , $I_o=40mA$	-	3.5	6.0	mA
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 100KHz$ $V_i=12V$ , $I_o=40mA$	-	120	-	$\mu V$
Ripple Rejection	RR	$9V \leq V_1 \leq 19V$ , $I_o=40mA$ $f=120Hz$ , $T_j=25^\circ C$ $e_i N=1V_{P-P}$	41	71	-	dB

### Typcial Application



## Ordering Information

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-BP-HF  
 Adding "-HF" Suffix for Halogen Free, eg. Part Number-AP-HF

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